BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 2500000.00

Name of Work: Estimate for Maintenance of Existing Borewell in ward No. 05 Byatarayanapura Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Lifting of Submersible pump set as per Soecification and direction **(P. 56 / I. 10.3.21) PRED SR (2012-13)**	Each Legnth	2X45X 40				**4050**	109.00	**441450.00**
2	Transportation of pumping machineries **(P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	45				**45**	900.00	**40500.00**
3	Labour charges (over hauling) **P. No. 56 / I No.10.3.22 PRED SR (2012-13)**	Job	45				**45**	550.00	**24750.00**
4	Rewinding of Submersible Pump Sets								
	(BWSSB SR 14-15 P-58 I-A) 10 HP	No.	5				**5**	4785.00	**23925.00**
	(BWSSB SR 14-15 P-58 I-A) 7.5 HP	No.	10				**10**	3822.00	**38220.00**
	(BWSSB SR 14-15 P-58 I-A) 12.5 HP	No.	10				**10**	5885.00	**58850.00**
	(BWSSB SR 14-15 P-58 I-A) 15.0 HP	No.	20				**20**	5800.00	**116000.00**
	B) Replacement of Motor Parts:								
5	Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	15				**15**	5050.00	**75750.00**
6	Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	30				**30**	4700.00	**141000.00**
7	Pump Bowls P No. 44 / I No. 10.2.1) APRED SR (2012-13)	No.	400				**400**	700.00	**280000.00**
8	Intermediate Piece (I.P) With IP Leaded Bronxe bush P No. 44 / I No. 10.2.2) APRED SR (2012-13)	No.	40				**40**	450.00	**18000.00**
9	Upper Flange **P. No. 56 / I No. 10.3.7 PRED SR (2012-13)**	No.	45				**45**	350.00	**15750.00**
10	Lower Housing **P. No. 56 / I No. 10.3.10 PRED SR (2012-13)**	No.	45				**45**	650.00	**29250.00**
11	Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	45				**45**	475.00	**21375.00**
12	Thrust bearing block assembly complete with Segment bearing pad.**P. No. 55 / I No.10.3.13 PRED SR (2012-13)**	No.	45				**45**	1150.00	**51750.00**
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
13	Oil Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-13)**	No.	45				**45**	125.00	**5625.00**
14	Oil Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED SR (2012-13)**	No.	45				**45**	150.00	**6750.00**
15	Guide vane **P. No. 54 / I No. 10.2.5 PRED SR (2012-13)**	No.	200				**200**	175.00	**35000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
16	Impeller Shell moulded with aluminium Bronze) **P. No. 54 / I No. 10.2.6 PRED SR (2012-13)**	No.	45				**45**	425.00	**19125.00**
17	Discharge outlet (D.O) Bearing D.O Steel Bush **P. No. 55 / I No. 10.2.7 PRED SR (2012-13)**	No.	65				**65**	445.00	**28925.00**
18	D.O Bearing P. No. 44 / I No. 10.2.7 PRED SR (2012-13)	No.	65				**65**	285.00	**18525.00**
19	Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	325				**325**	150.00	**48750.00**
20	Allen Screw P. No.44 / I No. 10.2.9 RDPR SR (2012-13)	No.	225				**225**	25.00	**5625.00**
21	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55 / I No. 10.2.11 PRED SR (2012-13)**	No.	35				**35**	950.00	**33250.00**
22	Pump Key (Stainless Steel) P. No. 45 / I No. 10.2.11 RDED SR (2012-13)	No.	35				**35**	125.00	**4375.00**
23	Pump Couping (Stainless Steel) P. No. 44 / I No. 10.2.12 RDED SR (2012-13)	No.	45				**45**	250.00	**11250.00**
24	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	25				**25**	1350.00	**33750.00**
25	Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	45				**45**	150.00	**6750.00**
26	Strainer P. No. 45 / I No. 10.2.15 RDED SR (2012-13)	No.	45				**45**	150.00	**6750.00**
27	Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	45				**45**	250.00	**11250.00**
28	Labour Chargesw (Over Hauling Only) P. No. 45 / I No. 10.2.18 PRED SR (2012-13)	No.	45				**45**	556.00	**25020.00**
29	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I No. 10.3.20 PRED SR (2012-13)**	Each	40				**40**	950.00	**38000.00**
30	Lock Ring P. No. 45 / I No. 10.3.11 PREC SR (2012-13)	Each	60				**60**	85.00	**5100.00**
32	a) Carbon Housing P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	40				**40**	475.00	**19000.00**
32	Top Carbon/Ferrodo padding P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	40				**40**	150.00	**6000.00**
33	Stud and Nuts P. No. 45 / I No. 10.3.15 PRED SR (2012-13)	Each	200				**200**	50.00	**10000.00**
34	Bearing (Gunmetal) Centrifugal) Cast Aluminium Bronxe, Beaing bush P. No. 46 / I No. 10.3.16 APRDED SR (2012-13)	Each	40				**40**	400.00	**16000.00**
35	Circillps P. No. 45 / I No. 10.3.17 PREC SR (2012-13)	Each	100				**100**	50.00	**5000.00**
36	Motor Base With Pin P. No. 46 / I No. 10.3.18 ARDED SR (2012-13)	Each	25				**25**	475.00	**11875.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	General Itmes								
37	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 17.50 HP 30 stage (P.NO-XXXXIII, I.NO-33, PWD SR 16-17)	No							
	For Additional Motor 17.50 HP 30 Stage		2				**2**	74377.50	**148755.00**
38	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	No.							
			4				**4**	14800.00	**59200.00**
39	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	Sqm							
	16SWG		4	1100.00	20.00		88000.00		
							88000.00	0.34	**29911.00**
	Basic Rate	0.33							
	3% area weightage	0.01							
	Total	**0.34**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
40	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr							
			1	715.00			**715.00**	185.00	**132275.00**
41	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR 2015-16, P.NO.XXIV, Sl.no, 673)	No's							
			30	3.00			**90.00**	1600.00	**144000.00**
	Basic Rate	1600							
42	Providing and fixing of 50mm GI bend to motor (PWD SR 16-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
			20	3.00			**60.00**	219.00	**13140.00**
	Basic Rate	219							
43	Providing and fixing of 50mm GI Nipple to motor (PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
			20	3.00			**60.00**	104.30	**6258.00**
	Basic Rate	104.3							
44	Providing and fixing of 50mm GI union to the motor ((PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
			22	3.00			**66.00**	223.70	**14764.00**
	Basic Rate	223.7							
45	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR 16-17)	Cum							
			1	175.00	0.45	0.75	59.06		
							59.06	222.38	**13134.00**
	Basic Rate	189.00							
	Add 11% AD-HOC	20.79							
	Total	209.79							
	6% area weightage	12.59							
	Total	**222.38**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
46	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 16-17)	Mtr							
	75 mm dia 6 KSC PVC pipe								
			1	175.00			175.00		
							175.00	368.88	**64554.00**
	Basic Rate	348.00							
	6% area weightage	20.88							
	Total	**368.88**							
47	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)	Cum							
			Qty. Vide Item No.				**59.06**	89.42	**5281.00**
	Basic Rate	76.00							
	Add 11% AD-HOC	8.36							
	Total	84.36							
	6% area weightage	5.06							
	Total	**89.42**							
48	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 97 / I.13.37 PWD SR - 2015-16**	Each							
			16				**16**	2175.12	**34802.00**
	Basic Rate	2052.00							
	Area Weightage @ 6%	123.12							
	Total	**2175.12**							
49	Threading of GI Pipes 50mm Dia P. No. 15 / I No.3.11.6 PRED SR (2012-13)		25X70				**1750.00**	25.00	**43750.00**
50	Miscellaneous and Unforeseen Charges	L/S							**1911.00**
								Total	**2500000.00**

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per C.S.R. of PWD 2015-16, PWD Elecrical 2010-11, PRED 2012-13 & SE-RDED approved Rate.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer
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Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Executive Engineer
Bruhat Bangalore Mahanagara Palike

Administrative Approval
Accorded For RS 25 lakhs only
Head of A/C P177
CER NO: AS/297/17-18 08.02.18

Technical Sanction
Accorded For Rs.25.00 lakhs only
Head of A/C P177
CER NO: TS/664/17-18 16/02/18

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